PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 78185-PCT/JPW/BB	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.				
International application No.	International filing date (day/	ny/month/year) (Earliest) Priority Date (duy/month/year)				
PCT/US 08/08752	17 July 2008 (17.07.2008)	,	19 July 2007 (19.07.2007)			
Applicant PROGENICS PHARMACEUTICALS, INC.						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of						
1. Basis of the report						
a. With regard to the language, the international search was carried out on the basis of:						
the international application in the language in which it was filed.						
a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).						
b. This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).						
c. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.						
2. Certain claims were found unsearchable (see Box No. II).						
3. Unity of invention is lacki	3. Unity of invention is lacking (see Box No. III).					
4. With regard to the title,						
the text is approved as subn	nitted by the applicant.					
the text has been established	the text has been established by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant						
			h report, submit comments to this Authority.			
6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No						
as suggested by the applicant.						
as selected by this Authority, because the applicant failed to suggest a figure.						
as selected by this Authority, because this figure better characterizes the invention.						
b. Inone of the figures is to be published with the abstract.						

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/08752

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claims Nos.: 116-124 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Scarching Authority found multiple inventions in this international application, as follows:					
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.					
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.					
No protest accompanied the payment of additional search fees.					

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 08/08752

IPC(8) -	ASSIFICATION OF SUBJECT MATTER A61K 39/395 (2009.01) 424/143.1				
	to International Patent Classification (IPC) or to both	national classification and IPC			
	LDS SEARCHED				
Minimum d USPC - 424	ocumentation searched (classification system followed by //143.1	classification symbols)			
	ion searched other than minimum documentation to the c: 0/388.220, 435/69.6, 70.210; 536/23.530; 435/252.3	xtent that such documents are included in the	fields searched		
PubWEST(E resistant, CC	ata base consulted during the international search (name of DB=PGPB,USPT,USOC,EPAB,JPAB), Google Scholar(CR5 receptor monoclonal antibody amprenavir resistant le(JRCSF HIV)	CC101.19 enfuvirtide resistance, CCR5 rec	eptor monoclonal antibody		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where a	Relevant to claim No.			
X	US 2007/0026441 A1 (OLSON et al), 1 February 200 [0075], [0086], [0091], [0097]-[0098], [0100], [0103]-[0 [0140]; fig 1; Table 2	1-7, 9-10, 12, 14-15, 17- 46, 48,49, 51, 53-54, 56- 60, 64-71, 74-78, 80-81, 83, 85, 86, 88, 89, 91- 115, 129-137, 139-140, 142, and 144-145			
Y			8,11,13,16, 47, 50,52,55, 61-63,72- 73,79,82,84,87,90, 125- 128,138, 141, 143, 146		
Y	PRADO et al, Amprenavir-resistant HIV-1 exhibits lopi replication capacity. AIDS 2002, vol 16, pp1009-1017;	8,16,47,55,79,87,138,146			
Y	HANNA et al, Patterns of Resistance Mutations Select Immunodeficiency Virus Type 1 Infection with Zidovud Journal of Infectious Diseases 2000, vol 181, pp904-9	11,13,16,50,52,55,82,84, 87, 141, 143,146			
Y	US 2003/0228306 A1 (OLSON et al), 11 December 20 [0214]-[0216], [0219]-[0220]	61-63			
Y	GREENBERG et al, Resistance to enfuvirtide, the first Antimicrobial Chemotherapy, 2004, vol 54, pp 333-340	72-73,90,125-128			
Furthe	r documents are listed in the continuation of Box C.		L		
"A" docume to be of	al categories of cited documents: "T" later document published after the international filing date or priorit date and not in conflict with the application but cited to understand of particular relevance "T" later document published after the international filing date or priorit date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
filing da "L" documen	nt which may throw doubts on priority claim(s) or which is	considered novel or cannot be considered when the document is taken alone	ered to involve an inventive		
special r "O" documer	establish the publication date of another citation or other eason (as specified) nt referring to an oral disclosure, use, exhibition or other	considered to involve an inventive s	step when the document is documents, such combination		
	nt published prior to the international filing date but later than ity date claimed	being obvious to a person skilled in the "&" document member of the same patent f			
Date of the actual completion of the international search		Date of mailing of the international search report 0.8 MAY 2009			
·	(24.04.2009)				
fail Stop PCT P.O. Box 1450	ailing address of the ISA/US , Attn: ISA/US, Commissioner for Patents), Alexandria, Virginia 22313-1450 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300			
	1/210 (second sheet) (April 2007)	PCT OSP: 571-272-7774			